

D. Jiang

1646

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001
 TIME: 16:07:03

Input Set : N:\CrF3\RULE60\09488728.txt
 Output Set: N:\CRF3\05162001\I488728.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: Troutt, Anthony
 8 (ii) TITLE OF INVENTION: Method of Regulating Nitric Oxide Production
 10 (iii) NUMBER OF SEQUENCES: 4
 12 (iv) CORRESPONDENCE ADDRESS:
 13 (A) ADDRESSEE: Immunex Corporation
 14 (B) STREET: 51 University Street
 15 (C) CITY: Seattle
 16 (D) STATE: WA
 17 (E) COUNTRY: USA
 18 (F) ZIP: 98101
 20 (v) COMPUTER READABLE FORM:
 21 (A) MEDIUM TYPE: Floppy disk
 22 (B) COMPUTER: Apple PowerMacintosh
 23 (C) OPERATING SYSTEM: Apple Operating System 7.5.5
 24 (D) SOFTWARE: Microsoft Word for PowerMacintosh, Version 6.0.1
 26 (vi) CURRENT APPLICATION DATA:
 C--> 27 (A) APPLICATION NUMBER: US/09/488,728
 C--> 28 (B) FILING DATE: 20-Jan-2000
 35 (C) CLASSIFICATION:
 30 (vii) PRIOR APPLICATION DATA:
 31 (A) APPLICATION NUMBER: US/09/978,773
 32 (B) FILING DATE: 26-NOV-1997
 33 (A) APPLICATION NUMBER: USSN 60/052,525
 34 (B) FILING DATE: 27 NOVEMBER 1996
 37 (viii) ATTORNEY/AGENT INFORMATION:
 38 (A) NAME: Perkins, Patricia Anne
 39 (B) REGISTRATION NUMBER: 34,693
 40 (C) REFERENCE/DOCKET NUMBER: 2623-A
 42 (ix) TELECOMMUNICATION INFORMATION:
 43 (A) TELEPHONE: (206)587-0430
 44 (B) TELEFAX: (206)
 47 (2) INFORMATION FOR SEQ ID NO: 1:
 49 (i) SEQUENCE CHARACTERISTICS:
 50 (A) LENGTH: 3288 base pairs
 51 (B) TYPE: nucleic acid
 52 (C) STRANDEDNESS: single
 53 (D) TOPOLOGY: linear
 55 (ii) MOLECULE TYPE: cDNA to mRNA
 57 (iii) HYPOTHETICAL: NO
 59 (iv) ANTI-SENSE: NO
 61 (vi) ORIGINAL SOURCE:
 62 (A) ORGANISM: Mouse
 65 (vii) IMMEDIATE SOURCE:
 66 (B) CLONE: IL-17 receptor
 68 (ix) FEATURE:

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001

TIME: 16:07:03

Input Set : N:\Crif3\RULE60\09488728.txt

Output Set: N:\CRF3\05162001\I488728.raw

```

69      (A) NAME/KEY: CDS
70      (B) LOCATION: 121..2712
73      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
75      GTCGACTGGA ACGAGACGAC CTGCTGCCGA CGAGCGCCAG TCCTCGGCCG GGAAAGCCAT      60
77      CGCGGGCCCT CGCTGTCGCG CGGAGCCAGC TGCAGCGCT CCGCGACCGG GCCGAGGGCT      120
79      ATG GCG ATT CGG CGC TGC TGG CCA CGG GTC GTC CCC GGG CCC GCG CTG      168
80      Met Ala Ile Arg Arg Cys Trp Pro Arg Val Val Pro Gly Pro Ala Leu
81      1          5          10          15
83      GGA TGG CTG CTT CTG CTG CTG AAC GTT CTG GCC CCG GGC CGC GCC TCC      216
84      Gly Trp Leu Leu Leu Leu Leu Asn Val Leu Ala Pro Gly Arg Ala Ser
85      20          25          30
87      CCG CGC CTC CTC GAC TTC CCG GCT CCG GTC TGC GCG CAG GAG GGG CTG      264
88      Pro Arg Leu Leu Asp Phe Pro Ala Pro Val Cys Ala Gln Glu Gly Leu
89      35          40          45
91      AGC TGC AGA GTC AAG AAT AGT ACT TGT CTG GAT GAC AGC TGG ATC CAC      312
92      Ser Cys Arg Val Lys Asn Ser Thr Cys Leu Asp Asp Ser Trp Ile His
93      50          55          60
95      CCC AAA AAC CTG ACC CCG TCT TCC CCA AAA AAC ATC TAT ATC AAT CTT      360
96      Pro Lys Asn Leu Thr Pro Ser Ser Pro Lys Asn Ile Tyr Ile Asn Leu
97      65          70          75          80
99      AGT GTT TCC TCT ACC CAG CAC GGA GAA TTA GTC CCT GTG TTG CAT GTT      408
100     Ser Val Ser Ser Thr Gln His Gly Glu Leu Val Pro Val Leu His Val
101     85          90          95
103     GAG TGG ACC CTG CAG ACA GAT GCC AGC ATC CTG TAC CTC GAG GGT GCA      456
104     Glu Trp Thr Leu Gln Thr Asp Ala Ser Ile Leu Tyr Leu Glu Gly Ala
105     100         105         110
107     GAG CTG TCC GTC CTG CAG CTG AAC ACC AAT GAG CGG CTG TGT GTC AAG      504
108     Glu Leu Ser Val Leu Gln Leu Asn Thr Asn Glu Arg Leu Cys Val Lys
109     115         120         125
111     TTC CAG TTT CTG TCC ATG CTG CAG CAT CAC CGT AAG CGG TGG CGG TTT      552
112     Phe Gln Phe Leu Ser Met Leu Gln His His Arg Lys Arg Trp Arg Phe
113     130         135         140
115     TCC TTC AGC CAC TTT GTG GTA GAT CCT GGC CAG GAG TAT GAA GTG ACT      600
116     Ser Phe Ser His Phe Val Val Asp Pro Gly Gln Glu Tyr Glu Val Thr
117     145         150         155         160
119     GTT CAC CAC CTG CCG AAG CCC ATC CCT GAT GGG GAC CCA AAC CAC AAA      648
120     Val His His Leu Pro Lys Pro Ile Pro Asp Gly Asp Pro Asn His Lys
121     165         170         175
123     TCC AAG ATC ATC TTT GTG CCT GAC TGT GAG GAC AGC AAG ATG AAG ATG      696
124     Ser Lys Ile Ile Phe Val Pro Asp Cys Glu Asp Ser Lys Met Lys Met
125     180         185         190
127     ACT ACC TCA TGC GTG AGC TCA GGC AGC CTT TGG GAT CCC AAC ATC ACT      744
128     Thr Thr Ser Cys Val Ser Ser Gly Ser Leu Trp Asp Pro Asn Ile Thr
129     195         200         205
131     GTG GAG ACC TTG GAC ACA CAG CAT CTG CGA GTG GAC TTC ACC CTG TGG      792
132     Val Glu Thr Leu Asp Thr Gln His Leu Arg Val Asp Phe Thr Leu Trp
133     210         215         220
135     AAT GAA TCC ACC CCC TAC CAG GTC CTG CTG GAA AGT TTC TCC GAC TCA      840
136     Asn Glu Ser Thr Pro Tyr Gln Val Leu Leu Glu Ser Phe Ser Asp Ser

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001

TIME: 16:07:03

Input Set : N:\Crif3\RULE60\09488728.txt

Output Set: N:\CRF3\05162001\I488728.raw

137	225				230				235				240				
139	GAG	AAC	CAC	AGC	TGC	TTT	GAT	GTC	GTT	AAA	CAA	ATA	TTT	GCG	CCC	AGG	888
140	Glu	Asn	His	Ser	Cys	Phe	Asp	Val	Val	Lys	Gln	Ile	Phe	Ala	Pro	Arg	
141					245				250				255				
143	CAA	GAA	GAA	TTC	CAT	CAG	CGA	GCT	AAT	GTC	ACA	TTC	ACT	CTA	AGC	AAG	936
144	Gln	Glu	Glu	Phe	His	Gln	Arg	Ala	Asn	Val	Thr	Phe	Thr	Leu	Ser	Lys	
145				260				265					270				
147	TTT	CAC	TGG	TGC	TGC	CAT	CAC	CAC	GTG	CAG	GTC	CAG	CCC	TTC	TTC	AGC	984
148	Phe	His	Trp	Cys	Cys	His	His	His	Val	Gln	Val	Gln	Pro	Phe	Phe	Ser	
149			275				280				285						
151	AGC	TGC	CTA	AAT	GAC	TGT	TTG	AGA	CAC	GCT	GTG	ACT	GTG	CCC	TGC	CCA	1032
152	Ser	Cys	Leu	Asn	Asp	Cys	Leu	Arg	His	Ala	Val	Thr	Val	Pro	Cys	Pro	
153		290				295				300							
155	GTA	ATC	TCA	AAT	ACC	ACA	GTT	CCC	AAG	CCA	GTT	GCA	GAC	TAC	ATT	CCC	1080
156	Val	Ile	Ser	Asn	Thr	Thr	Val	Pro	Lys	Pro	Val	Ala	Asp	Tyr	Ile	Pro	
157	305				310				315						320		
159	CTG	TGG	GTG	TAT	GGC	CTC	ATC	ACA	CTC	ATC	GCC	ATT	CTG	CTG	GTG	GGA	1128
160	Leu	Trp	Val	Tyr	Gly	Leu	Ile	Thr	Leu	Ile	Ala	Ile	Leu	Leu	Val	Gly	
161				325			330				335						
163	TCT	GTC	ATC	GTG	CTG	ATC	ATC	TGT	ATG	ACC	TGG	AGG	CTT	TCT	GGC	GCC	1176
164	Ser	Val	Ile	Val	Leu	Ile	Ile	Cys	Met	Thr	Trp	Arg	Leu	Ser	Gly	Ala	
165			340				345				350						
167	GAT	CAA	GAG	AAA	CAT	GGT	GAT	GAC	TCC	AAA	ATC	AAT	GGC	ATC	TTG	CCC	1224
168	Asp	Gln	Glu	Lys	His	Gly	Asp	Asp	Ser	Lys	Ile	Asn	Gly	Ile	Leu	Pro	
169		355				360				365							
171	GTA	GCA	GAC	CTG	ACT	CCC	CCA	CCC	CTG	AGG	CCC	AGG	AAG	GTC	TGG	ATC	1272
172	Val	Ala	Asp	Leu	Thr	Pro	Pro	Pro	Leu	Arg	Pro	Arg	Lys	Val	Trp	Ile	
173		370				375				380							
175	GTC	TAC	TCG	GCC	GAC	CAC	CCC	CTC	TAT	GTG	GAG	GTG	GTC	CTA	AAG	TTC	1320
176	Val	Tyr	Ser	Ala	Asp	His	Pro	Leu	Tyr	Val	Glu	Val	Val	Leu	Lys	Phe	
177	385				390				395						400		
179	GCC	CAG	TTC	CTG	ATC	ACT	GCC	TGT	GGC	ACT	GAA	GTA	GCC	CTT	GAC	CTC	1368
180	Ala	Gln	Phe	Leu	Ile	Thr	Ala	Cys	Gly	Thr	Glu	Val	Ala	Leu	Asp	Leu	
181			405				410				415						
183	CTG	GAA	GAG	CAG	GTT	ATC	TCT	GAG	GTG	GGG	GTC	ATG	ACC	TGG	GTG	AGC	1416
184	Leu	Glu	Glu	Gln	Val	Ile	Ser	Glu	Val	Gly	Val	Met	Thr	Trp	Val	Ser	
185			420				425				430						
187	CGA	CAG	AAG	CAG	GAG	ATG	GTG	GAG	AGC	AAC	TCC	AAA	ATC	ATC	ATC	CTG	1464
188	Arg	Gln	Lys	Gln	Glu	Met	Val	Glu	Ser	Asn	Ser	Lys	Ile	Ile	Ile	Leu	
189		435				440				445							
191	TGT	TCC	CGA	GGC	ACC	CAA	GCA	AAG	TGG	AAA	GCT	ATC	TTG	GGT	TGG	GCT	1512
192	Cys	Ser	Arg	Gly	Thr	Gln	Ala	Lys	Trp	Lys	Ala	Ile	Leu	Gly	Trp	Ala	
193		450				455				460							
195	GAG	CCT	GCT	GTC	CAG	CTA	CGG	TGT	GAC	CAC	TGG	AAG	CCT	GCT	GGG	GAC	1560
196	Glu	Pro	Ala	Val	Gln	Leu	Arg	Cys	Asp	His	Trp	Lys	Pro	Ala	Gly	Asp	
197	465				470				475						480		
199	CTT	TTC	ACT	GCA	GCC	ATG	AAC	ATG	ATC	CTG	CCA	GAC	TTC	AAG	AGG	CCA	1608
200	Leu	Phe	Thr	Ala	Ala	Met	Asn	Met	Ile	Leu	Pro	Asp	Phe	Lys	Arg	Pro	
201				485			490				495						

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001

TIME: 16:07:03

Input Set : N:\Crif3\RULE60\09488728.txt

Output Set: N:\CRF3\05162001\I488728.raw

203	GCC	TGC	TTC	GGC	ACC	TAC	GTT	GTT	TGC	TAC	TTC	AGT	GGC	ATC	TGT	AGT	1656
204	Ala	Cys	Phe	Gly	Thr	Tyr	Val	Val	Cys	Tyr	Phe	Ser	Gly	Ile	Cys	Ser	
205				500					505					510			
207	GAG	AGG	GAT	GTC	CCC	GAC	CTC	TTC	AAC	ATC	ACC	TCC	AGG	TAC	CCA	CTC	1704
208	Glu	Arg	Asp	Val	Pro	Asp	Leu	Phe	Asn	Ile	Thr	Ser	Arg	Tyr	Pro	Leu	
209			515					520					525				
211	ATG	GAC	AGA	TTT	GAG	GAG	GTT	TAC	TTC	CGG	ATC	CAG	GAC	CTG	GAG	ATG	1752
212	Met	Asp	Arg	Phe	Glu	Glu	Val	Tyr	Phe	Arg	Ile	Gln	Asp	Leu	Glu	Met	
213		530					535					540					
215	TTT	GAA	CCC	GGC	CGG	ATG	CAC	CAT	GTC	AGA	GAG	CTC	ACA	GGG	GAC	AAT	1800
216	Phe	Glu	Pro	Gly	Arg	Met	His	His	Val	Arg	Glu	Leu	Thr	Gly	Asp	Asn	
217	545				550						555				560		
219	TAC	CTG	CAG	AGC	CCT	AGT	GGC	CGG	CAG	CTC	AAG	GAG	GCT	GTG	CTT	AGG	1848
220	Tyr	Leu	Gln	Ser	Pro	Ser	Gly	Arg	Gln	Leu	Lys	Glu	Ala	Val	Leu	Arg	
221				565					570					575			
223	TTC	CAG	GAG	TGG	CAA	ACC	CAG	TGC	CCC	GAC	TGG	TTC	GAG	CGT	GAG	AAC	1896
224	Phe	Gln	Glu	Trp	Gln	Thr	Gln	Cys	Pro	Asp	Trp	Phe	Glu	Arg	Glu	Asn	
225				580					585					590			
227	CTC	TGC	TTA	GCT	GAT	GGC	CAA	GAT	CTT	CCC	TCC	CTG	GAT	GAA	GAA	GTG	1944
228	Leu	Cys	Leu	Ala	Asp	Gly	Gln	Asp	Leu	Pro	Ser	Leu	Asp	Glu	Glu	Val	
229			595					600					605				
231	TTT	GAA	GAC	CCA	CTG	CTG	CCA	CCA	GGG	GGA	GGA	ATT	GTC	AAA	CAG	CAG	1992
232	Phe	Glu	Asp	Pro	Leu	Leu	Pro	Pro	Gly	Gly	Gly	Ile	Val	Lys	Gln	Gln	
233		610					615					620					
235	CCC	CTG	GTG	CGG	GAA	CTC	CCA	TCT	GAC	GGC	TGC	CTT	GTG	GTA	GAT	GTC	2040
236	Pro	Leu	Val	Arg	Glu	Leu	Pro	Ser	Asp	Gly	Cys	Leu	Val	Val	Asp	Val	
237	625				630					635					640		
239	TGT	GTC	AGT	GAG	GAA	GAA	AGT	AGA	ATG	GCA	AAG	CTG	GAC	CCT	CAG	CTA	2088
240	Cys	Val	Ser	Glu	Glu	Glu	Ser	Arg	Met	Ala	Lys	Leu	Asp	Pro	Gln	Leu	
241				645					650						655		
243	TGG	CCA	CAG	AGA	GAG	CTA	GTG	GCT	CAC	ACC	CTC	CAA	AGC	ATG	GTG	CTG	2136
244	Trp	Pro	Gln	Arg	Glu	Leu	Val	Ala	His	Thr	Leu	Gln	Ser	Met	Val	Leu	
245			660					665						670			
247	CCA	GCA	GAG	CAG	GTC	CCT	GCA	GCT	CAT	GTG	GTG	GAG	CCT	CTC	CAT	CTC	2184
248	Pro	Ala	Glu	Gln	Val	Pro	Ala	Ala	His	Val	Val	Glu	Pro	Leu	His	Leu	
249			675					680						685			
251	CCA	GAC	GGC	AGT	GGA	GCA	GCT	GCC	CAG	CTG	CCC	ATG	ACA	GAG	GAC	AGC	2232
252	Pro	Asp	Gly	Ser	Gly	Ala	Ala	Ala	Gln	Leu	Pro	Met	Thr	Glu	Asp	Ser	
253		690					695				700						
255	GAG	GCT	TGC	CCG	CTG	CTG	GGG	GTC	CAG	AGG	AAC	AGC	ATC	CTT	TGC	CTC	2280
256	Glu	Ala	Cys	Pro	Leu	Leu	Gly	Val	Gln	Arg	Asn	Ser	Ile	Leu	Cys	Leu	
257	705				710						715				720		
259	CCC	GTG	GAC	TCA	GAT	GAC	TTG	CCA	CTC	TGT	AGC	ACC	CCA	ATG	ATG	TCA	2328
260	Pro	Val	Asp	Ser	Asp	Asp	Leu	Pro	Leu	Cys	Ser	Thr	Pro	Met	Met	Ser	
261				725						730				735			
263	CCT	GAC	CAC	CTC	CAA	GGC	GAT	GCA	AGA	GAG	CAG	CTA	GAA	AGC	CTA	ATG	2376
264	Pro	Asp	His	Leu	Gln	Gly	Asp	Ala	Arg	Glu	Gln	Leu	Glu	Ser	Leu	Met	
265			740					745						750			
267	CTC	TCG	GTG	CTG	CAG	CAG	AGC	CTG	AGT	GGA	CAG	CCC	CTG	GAG	AGC	TGG	2424

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001

TIME: 16:07:03

Input Set : N:\Crif3\RULE60\09488728.txt

Output Set: N:\CRF3\05162001\I488728.raw

```

268 Leu Ser Val Leu Gln Gln Ser Leu Ser Gly Gln Pro Leu Glu Ser Trp
269          755          760          765
271 CCG AGG CCA GAG GTG GTC CTC GAG GGC TGC ACA CCC TCT GAG GAG GAG      2472
272 Pro Arg Pro Glu Val Val Leu Glu Gly Cys Thr Pro Ser Glu Glu Glu
273          770          775          780
275 CAG CGG CAG TCG GTG CAG TCG GAC CAG GGC TAC ATC TCC AGG AGC TCC      2520
276 Gln Arg Gln Ser Val Gln Ser Asp Gln Gly Tyr Ile Ser Arg Ser Ser
277 785          790          795          800
279 CCG CAG CCC CCC GAG TGG CTC ACG GAG GAG GAA GAG CTA GAA CTG GGT      2568
280 Pro Gln Pro Pro Glu Trp Leu Thr Glu Glu Glu Glu Leu Glu Leu Gly
281          805          810          815
283 GAG CCC GTT GAG TCT CTC TCT CCT GAG GAA CTA CGG AGC CTG AGG AAG      2616
284 Glu Pro Val Glu Ser Leu Ser Pro Glu Glu Leu Arg Ser Leu Arg Lys
285          820          825          830
287 CTC CAG AGG CAG CTT TTC TTC TGG GAG CTC GAG AAG AAC CCT GGC TGG      2664
288 Leu Gln Arg Gln Leu Phe Phe Trp Glu Leu Glu Lys Asn Pro Gly Trp
289          835          840          845
291 AAC AGC TTG GAG CCA CGG AGA CCC ACC CCA GAA GAG CAG AAT CCC TCC      2712
292 Asn Ser Leu Glu Pro Arg Arg Pro Thr Pro Glu Glu Gln Asn Pro Ser
293          850          855          860
295 TAG GCCTCCTGAG CCTGCTACTT AAGAGGGTGT ATATTGTA CTGTGTGTGC      2765
297 GTGCGTGTGT GTGTGTGTGT GTGTGTGTGT GTGCGTGTGT GTGTGTGTGT GTGTGTGTGT      2825
299 GTGTGTGTAG TGCCCGGCTT AGAAATGTGA ACATCTGAAT CTGACATAGT GTTGATATACC      2885
301 TGAAGTCCCA GCACTTGCGA ACTGAGACTT GATGATCTCC TGAAGCCAGG TGTTCAGGGC      2945
303 CAGTGTGAAA ACATAGCAAG ACCTCAGAGA AATCAATGCA GACATCTTGG TACTGATCCC      3005
305 TAAACACACC CCTTTCCCTG ATAACCCGAC ATGAGCATCT GGTCATCATT GCACAAGAAT      3065
307 CCACAGCCCG TTCCAGAGC TCATAGCCAA GTGTGTGTGT CATTCTTGA ATATTTATTC      3125
309 TGTACCTACT ATTATCAGA CATTTGGAAT TCAAAAACAA GTTACATGAC ACAGCCTTAG      3185
311 CCACTAAGAA GCTTAAATT CGGTAAGGAT GTAAAATTAG CCAGGATGAA TAGAGGGCTG      3245
313 CTGCCCTGGC TGCAGAAGAG CAGGTCGTCT CGTTCAGTC GAC      3288
316 (2) INFORMATION FOR SEQ ID NO: 2:
318 (i) SEQUENCE CHARACTERISTICS:
319 (A) LENGTH: 864 amino acids
320 (B) TYPE: amino acid
321 (D) TOPOLOGY: linear
323 (ii) MOLECULE TYPE: protein
325 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
327 Met Ala Ile Arg Arg Cys Trp Pro Arg Val Val Pro Gly Pro Ala Leu
328 1          5          10          15
330 Gly Trp Leu Leu Leu Leu Asn Val Leu Ala Pro Gly Arg Ala Ser
331          20          25          30
333 Pro Arg Leu Leu Asp Phe Pro Ala Pro Val Cys Ala Gln Glu Gly Leu
334          35          40          45
336 Ser Cys Arg Val Lys Asn Ser Thr Cys Leu Asp Asp Ser Trp Ile His
337          50          55          60
339 Pro Lys Asn Leu Thr Pro Ser Ser Pro Lys Asn Ile Tyr Ile Asn Leu
340 65          70          75          80
342 Ser Val Ser Ser Thr Gln His Gly Glu Leu Val Pro Val Leu His Val
343          85          90          95

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001

TIME: 16:07:04

Input Set : N:\Crf3\RULE60\09488728.txt

Output Set: N:\CRF3\05162001\I488728.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]